

To: Norris, Gary[Norris.Gary@epa.gov]; Landis, Matthew[Landis.Matthew@epa.gov]
Cc: Buckley, Timothy[Buckley.Timothy@epa.gov]
From: Fortmann, Roy
Sent: Mon 8/17/2015 12:24:21 PM
Subject: FW: ORD/OSA Weekly Report

In case you have not seen it, the last blurb has the link to Weaver's HF Bromide manuscript.

From: Watkins, Tim
Sent: Monday, August 17, 2015 7:46 AM
To: ORD-NERL-Supervisors
Cc: Smith, Emily J.; Struble, Edward; Autrey, Brad
Subject: FW: ORD/OSA Weekly Report

Please find below, the ORD weekly report to the Administrator. Have a good week!

Tim Watkins

Deputy Director

National Exposure Research Laboratory

US EPA/Office of Research and Development

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(919) 541-5114

From: Blackburn, Elizabeth
Sent: Sunday, August 16, 2015 2:11 PM
To: ORD-Mgmt-Council; ORD-IOAA-Front Office Support; ORD-Exec-Council-Directors
Subject: Fwd: ORD/OSA Weekly Report

Hello all

Please see Tom's note to the Administrator.

Liz

Liz Blackburn

Chief of Staff

USEPA Office of Research and Development

202-564-2192

Cell 202-436-2453

Sent from my iPhone

Begin forwarded message:

From: "Burke, Thomas" <Burke.Thomas@epa.gov>

Date: August 16, 2015 at 12:40:50 PM EDT

To: "Administrator/Ex. 6" <Administrator/Ex.6@epa.gov>, "Meiburg, Stan" <Meiburg.Stan@epa.gov>, "Fritz, Matthew" <Fritz.Matthew@epa.gov>, "Reynolds, Thomas" <Reynolds.Thomas@epa.gov>, "Rupp, Mark" <Rupp.Mark@epa.gov>, "Pich, Luseni" <Pich.Luseni@epa.gov>, "Vaught, Laura" <Vaught.Laura@epa.gov>, "Beauvais, Joel" <Beauvais.Joel@epa.gov>, "Bond, Brian" <Bond.Brian@epa.gov>, "Garbow, Avi" <Garbow.Avi@epa.gov>, "Garvin, Shawn" <garvin.shawn@epa.gov>

Cc: "Kadeli, Lek" <Kadeli.Lek@epa.gov>, "Kavlock, Robert" <Kavlock.Robert@epa.gov>, "Smith, Kelley" <Smith.Kelley@epa.gov>, "Deener, Kathleen" <Deener.Kathleen@epa.gov>, "Blackburn, Elizabeth" <Blackburn.Elizabeth@epa.gov>, "Hubbard, Carolyn" <Hubbard.Carolyn@epa.gov>, "Naples, Eileen" <Naples.Eileen@epa.gov>

Subject: ORD/OSA Weekly Report

Administrator,

I am pleased to present our ORD/OSA weekly report.

Much of our effort this week continues to be focused on the

Gold King Mine release. Scientists across ORD have stepped up to provide their expertise. ORD staff are covering the ORD desk at the HQ Emergency Operations Center (EOC) providing data interpretation and science translation support.

Workshop for Non-Targeted Analysis of Chemicals

Tuesday I will join featured speaker Bob Kavlock at our Non-Targeted Analysis Workshop in RTP to give opening remarks. Because quantitative exposure data are available for only a small fraction of the tens of thousands of chemicals registered for use in the U.S., new methods are needed to generate measurement data for the chemicals that are largely unexamined. The workshop aims to bring together experts in non-targeted screening to discuss innovative methods and best practices for collecting, analyzing, interpreting, storing, and exchanging measurement data.

250th American Chemical Society (ACS) National Meeting & Exposition

August 16-20, several ORD scientists will deliver presentations and participate in the ACS National Meeting in Boston. The theme of this year's conference is "Innovation: from Discovery to Application".

Keynote Address at 2015 Kansas Environmental Conference, Topeka, KS

On August 17, ORD's Michael Gonzales will deliver a keynote presentation on the role of Green Chemistry and Green Engineering in preventing and solving current environmental challenges. The objective of this address is to educate state

level regulators and environmental protection specialists on the application of green chemistry and engineering to solve environmental concerns. This annual conference provides updates on environmental issues, new technologies, regulatory information, and pollution prevention.

World Health Organization to be Briefed on EPA's Perspective on Air Sensors

On August 18th, ORD's Tim Watkins will provide a brief overview of EPA's experiences with air sensors as part of the World Health Organization's (WHO) Second Consultation Meeting on the Global Platform on Air Quality and Health. The meeting is being held in Geneva, Switzerland and Watkins will be participating remotely via webinar.

Intermountain Energy Summit

Lek Kadeli will be the keynote speaker at the Intermountain Energy Summit on August 18th and 19th in Idaho Falls, Idaho. The summit's focus will be on developing a shared public-private approach to energy and water nexus issues. Among the summit's other featured speakers are representatives from the U.S. Congress and U.S. Department of Energy.

Region 1 Briefing on Climate Mapping and Climate Justice

Region 1 and ORD scientists will present *Update on Region 1's Climate Mapping Efforts, and Overview of Related ORD Climate Justice Research* to the Region 1 Global Climate Change

Network on August 19th. They will provide an update on Region 1's climate mapping workgroup, questions related to the Rural Community Assistance Program (RCAP), and cross-EPA climate mapping efforts. ORD will provide an overview of the emerging area of Climate Justice and planned ORD Climate Justice research that is relevant to New England and Region 1's *Making a Visible Difference in Communities* Projects.

STEM Outreach Program to share hands-on activities with local education and industry leaders

RTP 180^o is a monthly forum for members of the RTP community to gather and share what is happening in their worlds. This month's RTP 180^o will feature EPA-RTP's STEM Outreach Program and over 200 area employees are expected to attend. The presentation, *STEM in the Triangle*, will cover how the RTP community is engaging local students and will highlight several activities at interactive stations.

AIM High Recognition

We appreciate the recognition we recently received for our new peer review process as part of your AIM High Campaign. ORD's National Center for Environmental Research Peer Review Division entered into an Interagency Agreement with HHS to become a partner in the OMB recognized Grants Center of Excellence. This allows us to tap into a host of services included an automated system to conduct peer review. We can now conduct virtual peer reviews, which eliminate travel costs and improve efficiency.

Last Week

Presentation at Wildfire Workshop in Colorado Springs, CO

Dan Costa gave a presentation at the Wildfire Smoke Stakeholders Workshop held at Colorado State University (CSU) on Aug. 12. In his presentation, Costa addressed air quality issues associated with wildfires with a perspective on climate change.

Publications

Article Published in *LakeLine* Special Issue Focused on HABs

An article by ORD authors Betty J. Kreakie, Jeffrey W. Hollister, Farnaz Nojavan, W. Bryan Milstead and Lahne Mattas-Curry appeared in the Summer 2015 issue of *LakeLine*, a publication of the North American Lake Management Society.

“Computational Ecology & Open Science: Tools to Help Manage Cyanobacteria in Lakes” introduces concepts of computational ecology and open science and describes why they will advance the understanding of cyanobacteria blooms and help improve predictions of bloom occurrences.

<https://www.nalms.org/media.acux/beb75c9c-f812-4753-b888-79864899c6d6> (page 24).

Hydraulic Fracturing Paper

The technical paper: “*Scenario Analysis of the Impact on Drinking Water Intakes from Bromide in the Discharge of Treated Oil and Gas Wastewater*,” was published on August 13 online in the American Society of Civil Engineer’s *Journal of Environmental Engineering*. The paper presents the results of

modeling the dispersion of bromide in surface water of streams and rivers using generalized scenarios that illustrate disposal of treated oil and gas wastewater. The study found that discharging treated hydraulic fracturing wastewaters can contribute to elevated levels of bromide downstream at drinking water intakes.

(<http://ascelibrary.org/doi/abs/10.1061/%28ASCE%29EE.1943-7870.0000968>); full citation: Weaver, J., Xu, J., and Mravik, S. (2015). "Scenario Analysis of the Impact on Drinking Water Intakes from Bromide in the Discharge of Treated Oil and Gas Wastewater." *J. Environ. Eng.* , [10.1061/\(ASCE\)EE.1943-7870.0000968](https://doi.org/10.1061/(ASCE)EE.1943-7870.0000968).